

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC 7 H04B1/69

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

PAJ, COMPENDEX, EPO-Internal, INSPEC

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>PETRAGLIA A ET AL: "HIGH-SPEED A/D CONVERSION INCORPORATING A QMF BANK" IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT, IEEE INC. NEW YORK, US, vol. 41, no. 3, 1 June 1992 (1992-06-01), pages 427-431, XP000307987 ISSN: 0018-9456 paragraph '00II!; figure 1 --- -/--</p>	1-11

☒ Further documents are listed in the continuation of box C.☐ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*8\* document member of the same patent family

Date of the actual completion of the international search

17 September 2003

Date of mailing of the international search report

06/10/2003

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>WON NAMGOONG: "A channelized DSSS ultra-wideband receiver" PROCEEDINGS RAWCON 2001. 2001 IEEE RADIO AND WIRELESS CONFERENCE (CAT.NO.01EX514), PROCEEDINGS RAWCON 2001. 2001 IEEE RADIO AND WIRELESS CONFERENCE, WALTHAM, MA, USA, 19-22 AUG. 2001, pages 105-108, XP002254723 2001, Piscataway, NJ, USA, IEEE, USA ISBN: 0-7803-7189-5 cited in the application paragraph '0002!; figure 2 -----</p>	1-11